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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,156	0	6/26/2003	Keun-Deok Park	5000-1-321	5603
33942	7590	06/23/2005		EXAMINER	
CHA & REITER, LLC 210 ROUTE 4 EAST STE 103			METZMAIER, DANIEL S		
PARAMUS,				ART UNIT	PAPER NUMBER
Í				1712	

DATE MAILED: 06/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Application No.
Examiner Daniel S. Metzmaier Daniel Daniel S. Metzmaier Daniel Daniel S. Metzmaier Da
Daniel S. Metzmaier 1712  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Bankins of them may be suitable winder the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filled districts (1) MONTHS from the mailing date of this communication.  - If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - If allow to reply within the set or extended period for reply with, the set play within the set play that of the set of this communication.  - Failure to reply within the set or extended period for reply with, the set play within the set play within the set of set of this communication.  - Failure to reply within the set or extended period for reply with, the set play within the set play set of this communication.  - Failure to reply within the set or extended period for reply with, the set play within the set play set of this communication.  - Failure to reply within the set or extended period for reply with, the set play set on the mailing date of this communication.  - Failure to reply within the set or extended period for reply with, the set play set on the mailing date of this communication.  - Failure to reply within the set or extended period for reply with, the set play set on the mailing date of this communication.  - Failure to reply within the set or extended period for reply with the set play set on the mailing date of this communication.  - Failure to reply within the set of this communication.  - Failure to reply specified above is set of the set of the set of this communication.  - Failure to reply specified above is set of the set of this communication.  - Failure to reply specified above.  - Failure to reply specified above.  - Failure to reply specified above.  - Failure to reply specifi
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<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>
Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  S. Patent and Trademark Office PTOL-326 (Rev. 1-04)  Attachment(s)  Paper No(s)/Mail Date  Interview Summary (PTO-413) Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152) Other:

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## **DETAILED ACTION**

Claims 1-14 are pending.

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-4, drawn to a colloidal silica composition, classified in class 516, subclass 81.
  - II. Claims 5-8 and 10, drawn to methods of making colloidal silica, classified in class 516, subclass 86.
  - III. Claims 9, drawn to a method of molding in a tube to make a silica glass, classified in class 264, subclass 603.
  - IV. Claims 10-14, drawn to a method of injection molding to make a silica glass, classified in class 264, subclass 478.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions of Group II and Group I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the composition may be made employing an acid catalyst.
- 3. Inventions of Group I and Group III or IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another

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materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product may be molded in a number of different processes as well as coated onto a surface that does not require the use of a mold.

- 4. Inventions of Group II and Groups III and IV are separate and distinct because the colloidal silica has separate utilities other than making molded silica glass such as for coatings, as an additive in plastics or ceramics, as a defoaming agent, or as an additive to paper manufacture.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are distinct for the reasons given above and the search required for Group II, III, or IV is not required for Group I, restriction for examination purposes as indicated is proper.
- 7. A telephone call was made to Steve Cha on June 20, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel S. Metzmaier Primary Examiner

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